

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of claims:

1. (Previously Presented) A shift control device of an automatic transmission transmitting power from an engine said automatic transmission including a friction engagement element that is engaged in a drive position and disengaged in a non-drive position, an engagement pressure of said friction engagement element being controllable by direct pressure, comprising:

detection means for detecting a shift from said non-drive position to said drive position;

output means for outputting a command to execute an output lowering process of said engine to an engine control device in response to detection of the shift to said drive position;

detection means for detecting an input revolution number to said automatic transmission ;

and

control means for starting engagement of said friction engagement element by direct pressure control in response to detection of said input revolution number having been decreased to a predetermined revolution number by said output lowering process.

2. (Previously Presented) The shift control device of an automatic transmission according to claim 1, further comprising means for controlling the engagement pressure using the direct pressure control to suppress transmission of the power by said friction engagement element in response to detection of the shift to said drive position.

3. (Previously Presented) The shift control device of an automatic transmission according to claim 1, wherein said predetermined revolution number is set based on a heat absorption amount of said friction engagement element at the time of engagement.

4. (Previously Presented) A shift control device of an automatic transmission transmitting power from an engine, said automatic transmission including a friction engagement element that is engaged in a drive position and disengaged in a non-drive position, an engagement pressure of said friction engagement element being controllable by direct pressure, comprising:

detection means for detecting a shift from said non-drive position to said drive position;

output means for outputting a command to execute an output lowering process of said engine to an engine control device in response to detection of the shift to said drive position; and

control means for starting engagement of said friction engagement element by direct pressure control after a lapse of a predetermined period of time following initiation of said output lowering process.

5. (Previously Presented) The shift control device of an automatic transmission according to claim 4, further comprising means for controlling the engagement pressure using the direct pressure control to suppress transmission of the power by said friction engagement element in response to detection of the shift to said drive position.

6. (Previously Presented) The shift control device of an automatic transmission according to claim 4, wherein said predetermined period of time is set based on a time when a revolution number to said automatic transmission becomes a revolution number that is set in accordance with a heat absorption amount of said friction engagement element at the time of engagement.

7. (Previously Presented) The shift control device of an automatic transmission according to claim 1, wherein said drive position is a forward drive position, said non-drive position is a neutral position, and said friction engagement element is an input clutch.

8. (Previously Presented) A shift control device of an automatic transmission transmitting power from an engine, said automatic transmission including a friction engagement element that is engaged in a drive position and disengaged in a non-drive position, an engagement pressure of said friction engagement element being controllable by direct pressure,

comprising:

- a detection unit detecting a shift from said non-drive position to said drive position;
- an output unit outputting a command to execute an output lowering process of said engine to an engine control device in response to detection of the shift to said drive position;
- a detection unit detecting an input revolution number to said automatic transmission; and
- a control circuit starting engagement of said friction engagement element by direct pressure control in response to detection of said input revolution number having been decreased to a predetermined revolution number by said output lowering process.

9. (Previously Presented) The shift control device of an automatic transmission according to claim 8, further comprising a circuit controlling the engagement pressure using the direct pressure control to suppress transmission of the power by said friction engagement element in response to detection of the shift to said drive position.

10. (Previously Presented) The shift control device of an automatic transmission according to claim 8, wherein said predetermined revolution number is set based on a heat absorption amount of said friction engagement element at the time of engagement.

11. (Previously Presented) A shift control device of an automatic transmission transmitting power from an engine, said automatic transmission including a friction engagement element that is engaged in a drive position and disengaged in a non-drive position, an engagement pressure of said friction engagement element being controllable by direct pressure, comprising:

- a detection unit detecting a shift from said non-drive position to said drive position;
- an output unit outputting a command to execute an output lowering process of said engine to an engine control device in response to detection of the shift to said drive position; and
- a control circuit starting engagement of said friction engagement element by direct pressure control after a lapse of a predetermined period of time following initiation of said output lowering process.

12. (Previously Presented) The shift control device of an automatic transmission according to claim 11, further comprising a circuit controlling the engagement pressure using the direct pressure control to suppress transmission of the power by said friction engagement element in response to detection of the shift to said drive position.

13. (Previously Presented) The shift control device of an automatic transmission according to claim 11, wherein said predetermined period of time is set based on a time when a revolution number to said automatic transmission becomes a revolution number that is set in accordance with a heat absorption amount of said friction engagement element at the time of engagement.

14. (Previously Presented) The shift control device of an automatic transmission according to claim 8, wherein said drive position is a forward drive position, said non-drive position is a neutral position, and said friction engagement element is an input clutch.

15. (Previously Presented) The shift control device of an automatic transmission according to claim 2, wherein said drive position is a forward drive position, said non-drive position is a neutral position, and said friction engagement element is an input clutch.

16. (Previously Presented) The shift control device of an automatic transmission according to claim 5, wherein said drive position is a forward drive position, said non-drive position is a neutral position, and said friction engagement element is an input clutch.

17. (Previously Presented) The shift control device of an automatic transmission according to claim 6, wherein said drive position is a forward drive position, said non-drive position is a neutral position, and said friction engagement element is an input clutch.

18. (Previously Presented) The shift control device of an automatic transmission according to claim 9, wherein said drive position is a forward drive position, said non-drive position is a neutral position, and said friction engagement element is an input clutch.

19. (Previously Presented) The shift control device of an automatic transmission according to claim 10, wherein said drive position is a forward drive position, said non-drive position is a neutral position, and said friction engagement element is an input clutch.

20. (Previously Presented) The shift control device of an automatic transmission according to claim 13, wherein said drive position is a forward drive position, said non-drive position is a neutral position, and said friction engagement element is an input clutch.